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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of

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Application Number 10/006,069
Filing Date December 6, 2001
First Named Inventor Rebar, Edward, et al.
Group Art Unit 4646-1642
Examiner Name Unassigned C. Yuen
Attorney Docket Number 019496-005830US

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U.S. PATENT DOCUMENTS

| Examiner Initials * | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|------------------------|--------------------------|----------------------|--------------------------------------|--|--|--|
| | | Number | Kind Code ² (if known) | | | |
| | AA | 6,140,466 | | Barbas III et al. | 10/31/00 | |
| CY | AB | 6,140,081 | | Barbas | 10/31/00 | |
| CY | AC | 6,140,073 | | Bayne et al. | 10/31/00 | |
| CY | AD | 6,130,071 | | Alitalo et al. | 10/10/00 | |
| CY | AE | 6,040,157 | | Hu et al. | 03/21/00 | |
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| CY | AJ | 5,994,300 | | Bayne et al. | 11/30/99 | |
| CY | AK | 5,972,615 | | An et al. | 10/26/99 | |
| CY | AL | 5,939,538 | | Leavitt et al. | 08/17/99 | |
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| CY | AQ | 5,871,907 | | Winter et al. | 02/16/99 | |
| CY | AR | 5,871,902 | | Weininger et al. | 02/16/99 | |
| CY | AS | 5,869,618 | | Lippman et al. | 02/9/99 | |
| CY | AT | 5,840,693 | | Eriksson et al. | 11/24/98 | |
| CY | AU | 5,792,640 | | Chandrasegaran | 08/11/98 | |
| CY | AV | 5,789,538 | | Rebar et al. | 08/04/98 | |
| CY | AW | 5,776,755 | | Alitalo et al. | 07/07/98 | |
| CY | AX | 5,702,914 | | Evans et al. | 12/30/97 | |

Examiner
Signature

Chuang H H

Date
Considered

7.15.03

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet

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of

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| | |
|------------------------|-----------------------|
| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 1642 |
| Examiner Name | Unassigned C. Yaen |
| Attorney Docket Number | 019496-005830US |

U.S. PATENT DOCUMENTS

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| | | Number | Kind Code ² (if known) | | | |
| CY | AY | 5,674,738 | | Abramson et al. | 10/7/97 | |
| | AZ | 5,639,592 | | Evans et al. | 6/17/97 | |
| | BA | 5,607,918 | | Eriksson et al. | 03/04/97 | |
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| | BK | 5,348,864 | | Barbacid | 09/20/94 | |
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| CY | BW | 5,198,346 | | Ladner et al. | 03/30/93 | |

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Sheet **3** of

C m p l t e i f K n w n

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1640-1642 |
| Examiner Name | Unassigned C. Yaen |
| Attorney Docket Number | 019496-005830US |

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| CY | CD | | WO 00/45835 | | PCT | 08/10/00 | | |
| | CE | | WO 00/44903 | | PCT | 08/03/00 | | |
| | CF | | WO 00/42219 | | PCT | 07/20/00 | | |
| | CG | | WO 00/41566 | | PCT | 07/20/00 | | |
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| | CI | | WO 00/27878 | | PCT | 05/18/00 | | |
| | CJ | | WO 00/25805 | | PCT | 05/11/00 | | |
| | CK | | WO 00/23464 | | PCT | 04/27/00 | | |
| | CL | | WO 00/09148 | | PCT | 02/24/00 | | |
| | CM | | WO 99/50290 | | PCT | 10/07/99 | | |
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| CY | CQ | | WO 99/46364 | | PCT | 09/16/99 | | |

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| Examiner Signature | <i>Christopher HIZ</i> | Date Considered | 7.15.03 |
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Sheet 4 of

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Application Number 10/006,069
Filing Date December 6, 2001
First Named Inventor Rebar, Edward, et al.
Group Art Unit 1646 1642
Examiner Name Unassigned C. Yuen
Attorney Docket Number 019496-005830US

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|--------------------|-----------------------|-------------------------|---------------------|-----------------------------------|---|--|---|----------------|
| | | Office | Number ⁴ | Kind Code ⁵ (if known) | | | | |
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| | CS | | WO 99/42474 | | PCT | 08/26/99 | | |
| | CT | | WO 99/41371 | | PCT | 08/19/99 | | |
| | CU | | WO 99/40197 | | PCT | 08/12/99 | | |
| | CV | | WO 99/37671 | | PCT | 07/29/99 | | |
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| | CZ | | WO 98/53060 | | PCT | 11/26/98 | | |
| | DA | | WO 98/53059 | | PCT | 11/26/98 | | |
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| | DH | | WO 98/10071 | | PCT | 03/12/98 | | |
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| | DK | | WO 97/27212 | | PCT | 07/31/97 | | |
| | DL | | WO 97/17442 | | PCT | 05/15/97 | | |
| | DM | | WO 97/09427 | | PCT | 03/13/97 | | |
| | DN | | WO 97/05250 | | PCT | 02/13/97 | | |
| CY | DO | | WO 96/39515 | | PCT | 12/12/96 | | |

Examiner Signature

Christopher H. Yuen

Date Considered

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First Named Inventor Rebar, Edward, et al.
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Examiner Name Unassigned C. Yuen
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| | | Office | Number ⁴ | Kind Code ⁵ (if known) | | | | |
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| | DQ | | WO 96/27007 | | PCT | 09/06/96 | | |
| | DR | | WO 96/26736 | | PCT | 09/06/96 | | |
| | DS | | WO 96/20951 | | PCT | 07/11/96 | | |
| | DT | | WO 96/11269 | | PCT | 04/18/96 | | |
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| | DX | | WO 95/24473 | | PCT | 09/14/95 | | |
| | DY | | WO 95/19431 | | PCT | 07/20/95 | | |
| | DZ | | EP 0 935 001 | | EPO | 08/11/95 | | |
| | EA | | EP 0 506 477 | | EPO | 09/30/92 | | |
| | EB | | EP 0 484 401 | | EPO | 07/27/90 | | abstract |
| | EC | | EP 0 476 983 | | EPO | 03/15/00 | | |
| | ED | | EP 0 471 754 | | EPO | 11/15/90 | | |
| | EE | | EP 0 464 155 | | EPO | 10/04/90 | | |
| | EF | | EP 0 126 153 | | EPO | 06/07/84 | | |
| CY | | | | | | | | |

Examiner Signature

Christopher HYZ

Date Considered

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Sheet 6 of

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|------------------------|-----------------------|
| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|---------------------|-----------------------|---|----------------|
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| | EN | Bartsevich et al., "Regulation of the MDR1 Gene by Transcriptional Repressors Selected using peptide Combinatorial Libraries," <u>Mol. Pharmacol.</u> , 58:1-10 (2000). | |
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| | EP | Beerli et al., "Positive and Negative Regulation of Endogenous Genes Designed by Transcription Factors," <u>PNAS</u> , 97: 1495-1500 (2000). | |
| | EQ | Beerli, R.R. et al. "Toward controlling gene expression at will: Specific regulation of the <i>erbB-2/HER-2</i> promoter by using polydactyl zinc finger proteins constructed from modular building blocks," <u>PNAS</u> , 95:14628-14633 (1998). | |
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Examiner Signature

Christopher R

Date

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|---------------------|-----------------------|---|----------------|
| CY | ET | Berg, J. M., "DNA Binding Specificity of Steroid Receptors," <u>Cell</u> , 57:1065-1068 (1989). | |
| | EU | Berg, J. M., "Sp1 and the subfamily of zinc finger proteins with guanine-rich binding sites," <u>PNAS</u> , 89:11109-11110 (1992). | |
| | EV | Berg, J.M., "Letting your fingers do the walking," <u>Nature Biotechnology</u> , 15:323 (1997). | |
| | EW | Bergqvist et al., "Loss of DNA-binding and new transcription <i>trans</i> -activation function in polyomavirus large T-antigen with mutation of zinc finger motif," <u>Nuc. Acids Res.</u> , 18(9):2715-2720 (1990). | |
| | EX | Birkenhager, R., "Synthesis and physiological activity of heterodimers comprising different splice forms of vascular endothelial growth factor and placenta growth factor," <u>Biochem. J.</u> , 316:703-707 (1996). | |
| | EY | Blaese et al., "Vectors in cancer therapy: how will they deliver?," <u>Cancer Gene Therapy</u> , 2(4):291-297 (1995). | |
| | EZ | Cao, Y. "Heterodimers of Placenta Growth Factor/Vascular Endothelial Growth Factor," <u>J. Biol. Chem.</u> , 271: 3154-3162 (1996). | |
| | FA | Cao, Y. "Placenta Growth Factor: Identification and Characterization of a Novel Isoform Generated by RNA Alternative Splicing," <u>Biochem. Biophys. Res Commun.</u> , 235: 493-498 (1997). | |
| | FB | Caponigro et al., "Transdominant genetic analysis of a growth control pathway," <u>PNAS</u> , 95:7508-7513 (1998). | |
| | FC | Carmeliet et al., "Abnormal blood vessel development and lethality in embryos lacking a single VEGF allele," <u>Nature</u> , 380: 435-442 (1996). | |
| | FD | Carmeliet et al., "Impaired myocardial angiogenesis and ischemic cardiomyopathy in mice lacking the vascular endothelial growth factor isoforms VEGF 164 and VEGF 188," <u>Nature Med.</u> , 5: 495-502 (1999). | |
| CY | FE | Celenza et al., "A Yeast Gene That Is Essential for Release from Glucose Repression Encodes a Protein Kinase," <u>Science</u> , 233:1175-1180 (1986). | |

Examiner Signature

Christopher H. Z...

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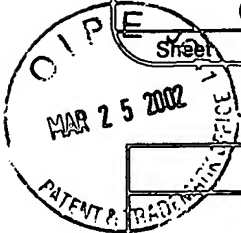
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Sheet **8** of **1**

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|------------------------|-----------------------|
| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | FF | Cheng et al., "A Single Amino Acid substitution in Zinc Finger 2 of Adr1p Changes its Binding Specificity at two Positions in UAS1," <u>J. Mol. Biol.</u> , 251:1-8 (1995). | |
| | FG | Cheng et al., "Identification of Potential Target Genes for Adr1p through Characterization of Essential Nucleotides in UAS1," <u>Mol. Cellular Biol.</u> , 14(6):3842-3852 (1994). | |
| | FH | Choo et al., "A role in DNA binding for the linker sequences of the first three zinc fingers of TFIIIA," <u>Nuc. Acids Res.</u> , 21(15):3341-3346 (1993). | |
| | FI | Choo et al., "Advances in Zinc Finger Engineering," <u>Current Opinion in Structural Biology</u> , 10:33850-3860 (2000). | |
| | FJ | Choo et al., "All wrapped up," <u>Nature Structural Biology</u> , 5(4):253-255 (1998). | |
| | FK | Choo et al., "Designing DNA-binding proteins on the surface of filamentous phage," <u>Curr. Opin. Biotechnology</u> , 6:431-436 (1995). | |
| | FL | Choo et al., "Physical basis of a protein-DNA recognition code," <u>Curr. Opin. Struct. Biol.</u> , 7(1):117-125 (1997). | |
| | FM | Choo et al., "Promoter-specific Activation of Gene Expression Directed by Bacteriophage-selected Zinc Fingers," <u>J. Mol. Biol.</u> , 273:525-532 (1997). | |
| | FN | Choo, Y. and Klug, A. "Selection of DNA binding sites for zinc fingers using rationally randomized DNA reveals coded interactions." <u>PNAS</u> , 91:11168-11172 (1994). | |
| | FO | Choo, Y. and Klug, A. Toward a code for the interactions of zinc fingers with DNA: Selection of randomized fingers displayed on phage." <u>PNAS</u> , 91:11163-11167 (1994). | |
| | FP | Choo, Y. et al. "In vivo repression by a site-specific DNA-binding protein designed against an oncogenic sequence." <u>Nature</u> , 372:642-645 (1994). | |
| | FQ | Choo, Y., "End effects in DNA recognition by zinc finger arrays," <u>Nuc. Acids Res.</u> , 26(2):554-557 (1998). | |
| | FR | Choo, Y., "Recognition of DNA methylation by zinc fingers," <u>Nature Struct. Biol.</u> , 5(4):264-265 (1998). | |
| CY | FS | Chua et al., J. "Interleukin 6 Induces the expression of Vascular Endothelial Growth Factor," <u>Biol. Chem.</u> , 271: 736-741 (1996). | |

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Chung H H

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Sheet **9** of **9**

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | FT | Clarke et al., "Zinc Fingers in <i>Caenorhabditis elegans</i> : Finding Families and Probing Pathways," <u>Science</u> , 282:2018-2022 (1998). | |
| | FU | Clauss, M., "The Vascular Endothelial Growth Factor Receptor Flt-1 Mediates Biological Activities," <u>J. Biol. Chem.</u> , 271: 17629-17634 (1996). | |
| | FV | Cohen, et al., "Interleukin 6 Induces the Expression of Vascular Endothelial Growth Factor," <u>The Journal of Biological Chemistry</u> , 271(2):736-741 (1996). | |
| | FW | "Collateral Therapeutics Inc. (CLTX) Announces Research On New Angiogenic Growth Factor Gene VEGF-138," (November 30, 2000) published at BioSpace.com. | |
| | FX | Connolly, "Vascular Permeability Factor: A Unique Regulator of Blood Vessel Function" <u>J. Cellular Biochem.</u> , 47: 219-223 (1991). | |
| | FY | Corbi et al., "Synthesis of a New Zinc Finger Peptide; Comparison of Its 'Code' Deduced and 'CASTing' Derived Binding Sites," <u>FEBS Letters</u> , 417:71-74 (1997). | |
| | FZ | Crozatier et al., "Single Amino Acid Exchanges in Separate Domains of the Drosophila serendipity δ Zinc Finger Protein Cause Embryonic and Sex Biased Lethality," <u>Genetics</u> , 131:905-916 (1992). | |
| | GA | Damert et al., Activator-protein-1 binding potentiates the hypoxia-inducible factor-1 mediated hypoxia-induced transcriptional activation of vascular-endothelial growth factor expression in C6 glioma cells," <u>Biochem. J.</u> 327: 419-423 (1997). | |
| | GB | Debs et al., "Regulation of Gene Expression <i>in Vivo</i> by Liposome-mediated Delivery of a Purified Transcription factor," <u>J. Biological Chemistry</u> , 265(18):10189-10192 (1990). | |
| | GC | Desjarlais et al., "Redesigning the DNA-Binding Specificity of a Zinc Finger Protein: A Data Base-Guided Approach," <u>Proteins: Structure, Function, and Genetics</u> , 12(2):101-104 (1992). | |
| | GD | Desjarlais et al., "Redesigning the DNA-Binding Specificity of a Zinc Finger Protein: A Data Base-Guided Approach," <u>Proteins: Structure, Function, and Genetics</u> , 13(3):272 (1992). | |
| CY | GE | Desjarlais, J.R. and Berg, J.M. "Length-encoded multiplex binding site determination: Application to zinc finger proteins," <u>PNAS</u> , 91:11099-11103 (1994). | |

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | GF | Desjarlais, J.R. and Berg, J.M. "Toward rules relating zing finger protein sequences and DNA binding site preferences," <u>PNAS</u> , 90:7345-7349 (1992). | |
| | GG | Desjarlais, J.R. and Berg, J.M. "Use of a zinc-finger consensus sequence framework and specificity rules to design specific DNA binding proteins," <u>PNAS</u> , 90:2256-2260 (1993). | |
| | GH | Diaz et al., "Regulation of Vascular Endothelial Growth Factor Expression in Human Keratocytes by Retinoids," <u>J. Biol. Chem.</u> , 275:642-650 (2000). | |
| | GI | DiBello et al., "The Drosophila Broad-Complex Encodes a Family of Related Proteins Containing Zinc Fingers," <u>Genetics</u> , 129:385-397 (1991). | |
| | GJ | Dreier et al. "Insights into the Molecular Recognition of the 5'GNN-3' Family of DNA Sequences by Zinc Finger Domains," <u>J. Mol. Biol.</u> , 303:489-502 (2000). | |
| | GK | Elrod-Erickson et al., "High-resolution structures of variant Zif268-DNA complexes: implications for understanding zinc finger-DNA recognition," <u>Structure</u> , 6(4):451-464 (1998). | |
| | GL | Elrod-Erickson et al., "Zif268 protein-DNA complex refined at 1.6 Å: a model system for understanding zinc finger-DNA interactions," <u>Structure</u> , 4(10):1171-1180 (1996). | |
| | GM | Esakof et al., "Intraoperative Multiplane Transesophageal Echocardiography for Guiding Direct Myocardial Gene Transfer of Vascular Endothelial Growth Factor in Patients with Refractory Angina Pectoris," <u>Hum. Gene Ther.</u> , 10:2307-2314 (1999). | |
| | GN | Fairall et al., "The crystal structure of a two zinc-finger peptide reveals an extension to the rules for zinc-finger/DNA recognition," <u>Nature</u> , 366:483-487 (1993). | |
| | GO | Ferrara et al., "Heterozygous embryonic lethality induced by targeted inactivation of the VEGF gene," <u>Nature</u> , 380: pp. 439-442 (1996). | |
| | GP | Ferrara et al., "The Vascular Endothelial Growth Factor Family of Polypeptides," <u>J Cellular Biochem.</u> , 47:211-218.(1991). | |
| | GQ | Forsythe et al., "Activation of Vascular Endothelial Growth Factor Gene Transcription by Hypoxia-Inducible Factor 1," <u>Mol. Cell. Biol.</u> , 16:4604-4613 (1996). | |
| CY | GR | Frankel et al., "Fingering Too Many Proteins," <u>Cell</u> , 53:675 (1988). | |

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| Filing Dat | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | GS | Friesen et al., "Phage Display of RNA Binding Zinc Fingers from Transcription Factor IIIA [*] ," <u>J. Biological Chem.</u> , 272(17):10994-10997 (1997). | |
| | GT | Friesen et al., "Specific RNA binding proteins constructed from zinc fingers," <u>Nature Structural Biology</u> , 5(7):543-546(1998). | |
| | GU | Gen Bank Accession No. V41383 (GI 1134964) " <u>Mus Musculus</u> Vascular Endothelial Growth Factor (VEGF) Gene, Partial eds. and Promoter Region," (04/17/96). | |
| | GV | GenBank Accession No. AC015837 (GI7407936) Homo Sapiens, clone RP11-23117," (04/04/00). | |
| | GW | GenBank Accession No. AF 106020 (GI4139223) "A Novel Vascular Endothelial Growth factor Encoded by Orf Virus, VEGF-E, mediates angiogenesis via signalling through VEGFR-2 (KDR) but not VEGFR-1 (Flt-1) receptor tyrosine Kinases," (03/11/99). | |
| | GX | GenBank Accession No. AF020393 (GI2582366) Genomic organization of human and mouse genes for vascular endothelial growth factor C," (11/02/97). | |
| | GY | GenBank Accession No. AF095785 (GI4154290) "Two novel polymorphisms in the promtor region of the human vascular endothelial growth factor (VEGF)gene," (01/14/99). | |
| | GZ | GenBank Accession No. HSU 69570 (GI 1825473) "Direct Submission," (02/07/97). | |
| | HA | GenBank Accession No. HSU80601 (GI 1815657) "Analysis of the Promotor Region of the Human VEGF- related Factor Gene," (02/05/97). | |
| | HB | GenBank Accession No. HSY 12864 (GI 2909351) "Human FIG F: cloning, gene structure, and mapping to chromosome Xp22.1 between the PIGA and the GRPR genes," (08/02/99). | |
| | HC | GenBank Accession No. S67520 (GI 456897) "Homologs of Vascular Endothelial Growth Factor are Encoded by the Poxvirus Orf Virus," <u>J. Virol.</u> , 68 (1):84-92 (1994). | |
| CY | HD | GenBank Accession No. AF091434 (GI6002592) "Homo sapiens secretory growth factor-like protein fallotein mRNA, complete cds," (06/22/00). | |

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Christopher H. E.

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| Applicati n Numb r | 10/006,069 |
| Filing Dat | December 6, 2001 |
| First Named Inv ntor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
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|---------------------|-----------------------|---|----------------|
| CY | HE | GenBank Acesion No. U80601 "Human novel unknown gene, partial 3'UTR, and VEGF-related factor (VRF) gene, promoter region," (02/05/97). | |
| | HF | Gogos et al., "Recognition of diverse sequences by class I zinc fingers: Asymmetries and indirect effects on specificity in the interaction between CF2II and A+T-rich sequence elements," <u>PNAS</u> , 93(5):2159-2164 (1996). | |
| | HG | Gossen et al., "Tight control of gene expression in mammalian cells by tetracycline-responsive promoters," <u>PNAS</u> , 89:5547-5551 (1992). | |
| | HH | Ghosh, D., "A relational database of transcription factors," <u>Nuc. Acids Res.</u> , 18(7):1749-1756 (1990). | |
| | HI | Grant et al., "Exploring the Role of Glutamine 50 in the Homeodomain-DNA Interface: Crystal Structure of Engrailed (Gln50→Ala) Complex at 2.0Å," <u>Biochemistry</u> , 39:8187-8192 (2000). | |
| | HJ | Greisman, H.A. and Pabo, C.O. "A general strategy for selecting high-affinity zinc finger proteins for diverse DNA target sites," <u>Science</u> , 275:657-661. (1997). | |
| | HK | Grunstein et al., "Isoforms of Vascular Endothelial Growth Factor Act in a Coordinate Fashion to Recruit and Expand Tumor Vasculature," <u>Mol. Cell. Biol.</u> , 20:728-7291 (2000). | |
| | HL | Hamilton et al., "Comparison of the DNA Binding Characteristics of the Related Zinc Finger Proteins WT1 and EGR1," <u>Biochemistry</u> , 37:2051-2058 (1998). | |
| | HM | Hamilton et al., "High affinity binding sites for the Wilms' tumor suppressor protein WT1," <u>Nuc. Acids Res.</u> , 23(2):277-284 (1995). | |
| | HN | Hanas et al., "Internal deletion mutants of <i>Xenopus</i> transcription factor IIIA," <u>Nuc. Acids Res.</u> , 17(23):9861-9870 (1989). | |
| | HO | Hayes et al., "Locations of Contacts between Individual Zinc Fingers of <i>Xenopus laevis</i> Transcription Factor IIIA and the Internal Control Region of a 5S RNA Gene," <u>Biochemistry</u> , 31:11600-11605 (1992). | |
| CY | HP | Heinzel et al., "A complex containing N-CoR, mSin3 and histone deacetylase mediates transcriptional repression," <u>Nature</u> , 387:43-48 (1997). | |

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | HQ | Hendel et al., "Effect of Intracoronary Recombinant Human Vascular Endothelial Growth Factor on Myocardial Perfusion," <u>Circulation</u> 101:118-121 (2000). | |
| | HR | Hirst et al., "Discrimination of DNA response elements for thyroid hormone and estrogen is dependent on dimerization of receptor DNA binding domains," <u>PNAS</u> , 89:5527-5531 (1992). | |
| | HS | Hoffman et al., "Structures of DNA-binding mutant zinc finger domains: Implications for DNA binding," <u>Protein Science</u> , 2:951-965 (1993). | |
| | HT | Ikeda et al., "Hypoxia-induced Transcriptional Activation and Increased mRNA Stability of Vascular Endothelial Growth Factor in C6 Glioma Cells," <u>J. Biol. Chem.</u> , 270: 19, 761-19, 766 (1995). | |
| | HU | Isalan et al., "Comprehensive DNA Recognition through Concerted Interactions from Adjacent Zinc Fingers," <u>Biochemistry</u> , 37:12026-12033 (1998). | |
| | HV | Isalan et al., "Synergy between adjacent zinc fingers in sequence-specific DNA recognition," <u>PNAS</u> , 94(11):5617-5621 (1997). | |
| | HW | Isner et al., "Clinical evidence of angiogenesis after arterial gene transfer of phVEGF 165 in patient with ischaemic limb," <u>Lancet</u> , 348:370-374 (1996). | |
| | HX | Jacobs, G. H., "Determination of the base recognition positions of zinc fingers from sequence analysis," <u>EMBO J.</u> , 11(12):4507-4517 (1992). | |
| | HY | Jamieson et al., "A zinc finger directory for high-affinity DNA recognition," <u>PNAS</u> , 93:12834-12839 (1996). | |
| | HZ | Jamieson, A.C. et al. "In vitro selection of zinc fingers with altered DNA-binding specificity," <u>Biochemistry</u> , 33:5689-5695 (1994). | |
| | IA | Joukov et al., "A novel vascular endothelial growth factor, VEGFC, is a ligand for the Flt4 (VEGFR-3) and KDR (VEGFR-2) receptor tyrosine kinases," <u>EMBO J.</u> 15: 290-298 (1996). | |
| CY | IB | Julian et al., "Replacement of His23 by Cys in a zinc finger of HIV-1 NCp7 led to a change in 1H NMR-derived 3D structure and to a loss of biological activity," <u>FEBS Letters</u> , 331(1,2):43-48 (1993). | |

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | IC | Kamiuchi et al., "New multi zinc finger protein: biosynthetic design and characteristics of DNA recognition," <u>Nucleic Acids Symposium Series</u> , 37:153-154 (1997). | |
| | ID | Kang et al., "Zinc Finger Proteins as Designer Transcription Factors," <u>J. Biol. Chem.</u> , 275(12):8742-8748 (2000). | |
| | IE | Keck et al., "Vascular Permeability Factor, an Endothelial Cell Mitogen Related to PDGF," <u>Science</u> , 246: 1309-1312 (1989). | |
| | IF | Kim et al., "A 2.2 Å resolution crystal structure of a designed zinc finger protein bound to DNA," <u>Nat. Struct. Biol.</u> , 3(11):940-945 (1996). | |
| | IG | Kim et al., "Design of TATA box-binding protein/zinc finger fusions for targeted regulation of gene expression," <u>PNAS</u> , 94:3616-3620 (1997). | |
| | IH | Kim et al., "Hybrid restriction enzymes: Zinc finger fusions to <i>Fok I</i> cleavage domain," <u>PNAS</u> , 93:1156-1160 (1996). | |
| | II | Kim et al., "Serine at Position 2 in the DNA Recognition helix of a Cys2-His2 Zinc finger Peptide is Not, in General, Responsible for Base Recognition," <u>J. Mol. Biol.</u> , 252:1-5 (1995). | |
| | IJ | Kim et al., "Site-specific cleavage of DNA-RNA hybrids by zinc finger/ <i>FokI</i> cleavage domain fusions," <u>Gene</u> , 203:43-49 (1997). | |
| | IK | Kim, J-S. and Pabo, C.O. "Getting a handhold on DNA: Design of poly-zinc finger proteins with femtomolar dissociation constants," <u>PNAS</u> , 95:2812-2817 (1998). | |
| | IL | Kim, J-S. and Pabo, C.O. "Transcriptional repression by zinc finger peptides," <u>The Journal of Biological Chemistry</u> , 272:29795-28000 (1997). | |
| | IM | Kimura et al., "Hypoxia response element of the human vascular endothelial growth factor gene mediates transcriptional regulation by nitric oxide: control of hypoxia-inducible factor-1 activity by nitric oxide," <u>Blood</u> , 95: 189-197 (2000). | |
| | IN | Kinzler et al., "The GLI gene is a member of the Kruppel family of zinc finger proteins," <u>Nature</u> , 332:371-4 (1988). | |
| CY | IO | Klug et al., "Protein Motifs 5: Zinc Fingers," <u>FASEB J.</u> , 9:597-604 (1995). | |

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| Applicati n Number | 10/006,069 |
| Filing Dat | Dec mber 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|--|----------------|
| CY | IP | Klug, "Zinc Finger Peptides for the Regulation of Gene Expression," <u>J. Mol. Biol.</u> , 293:215-218 (1999). | |
| | IQ | Klug, A., "Gene Regulatory Proteins and Their Interaction with DNA," <u>Ann. NY Acad. Sci.</u> , 758:143-160 (1995). | |
| | IR | Kothekar, "Computer Simulation of Zinc Finger Motifs from Cellular Nucleic Acid Binding Proteins and their Interaction with Consensus DNA Sequences," <u>FEBS Letters</u> , 274(1,2):217-222 (1990). | |
| | IS | Kriwacki <i>et al.</i> , "Sequence-Specific Recognition of DNA by Zinc-Finger Peptides Derived from the Transcription Factor Sp1," <u>PNAS</u> , 89:9759-9763 (1992). | |
| | IT | Kudla <i>et al.</i> , "The regulatory gene <i>area</i> mediating nitrogen metabolite repression in <i>Aspergillus nidulans</i> . Mutations affecting specificity of gene activation alter a loop residue of a putative zinc finger," <u>EMBO J.</u> , 9(5):1355-1364 (1990). | |
| | IU | Ladoux <i>et al.</i> , "Cobalt Stimulates the Expression of Vascular Endothelial Growth Factor mRNA in Rat Cardiac Cells," <u>Biochem Biophys. Res. Commun.</u> 204:794-798 (1994). | |
| | IV | Laird-Offringa <i>et al.</i> , "RNA-binding proteins tamed," <u>Nat. Structural Biol.</u> , 5(8):665-668 (1998). | |
| | IW | Lee <i>et al.</i> , "Vascular endothelial growth factor-related protein: A ligand and specific activator of the tyrosine kinase receptor Flt4," <u>PNAS</u> , 93: 1988=1992 (1996). | |
| | IX | Leung <i>et al.</i> , k "Vascular Endothelial Growth Factor Is a Secreted Angiogenic Mitogen," <u>Science</u> , 246: 1306-1309 (1989). | |
| | IY | Levy <i>et al.</i> , Transcriptional Regulation of the Rat Vascular Endothelial Growth Factor Gene by Hypoxia," <u>J. Biol. Chem.</u> , 270: 13,333-13, 340 (1995). | |
| | IZ | Liu <i>et al.</i> , "Hypoxia Regulates Vascular Endothelial Growth Factor Gene Expression in Endothelial Cells," <u>Circ. Res.</u> , 77: 638-643 (1995). | |
| | JA | Liu, Q. <i>et al.</i> "Design of polydactyl zinc-finger proteins for unique addressing within complex genomes," <u>PNAS</u> , 95:5525-5530 (1997). | |
| CY | JB | Lyttle, D.J. <i>et al.</i> , "Homologs of Vascular Endothelial Growth Factor are Encoded by the Poxvirus Orf Virus," <u>J. Virology</u> , 68: 84-92 (1994). | |

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| Applicati n Numb r | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | JC | Maglione et al., "Isolation of a human placenta cDNA coding for a prtein related to the vascular permeability factor," <u>PNAS</u> , 88: 9267-9271 (1991). | |
| | JD | Mandel-Gutfreund et al., "Quantitative parameters for amino acid-base interaction: implications for prediction of protein-DNA binding sites," <u>Nuc. Acids Res.</u> , 26(10):2306-2312 (1998). | |
| | JE | Margolin et al., "Kruppel-associated boxes are potent transcriptional repression domains," <u>PNAS</u> , 91:4509-4513 (1994). | |
| | JF | McNamara et al., " A novel four zinc-finger protein targeted against p190 (BcrAbl) fusion oncogene cDNA: utilizaiton of zinc-finger recognition codes," <u>Nucleic Acid Research</u> , 28(24):4865-4872 (2000). | |
| | JG | Meyer et al., "A Novel Vascular Endothelial Growth Factor Encoded by Orf virus, VEGF-E, mediates angiogenesis via signalling through VEGFR-2 (KDR) bu not VEGFR 1 (flt-1) receptor Tyrosine Kinases," <u>EMBO J.</u> , 18: 363-374 (1999). | |
| | JH | Migdal et al., "Neuropilin-1 Is a Placenta Growth Factor-2 receptor," <u>J.Biol. Chem.</u> , 273:22272-22278 (1998). | |
| | JI | Milanini et al., "p42/p44 MAP Kinase Module Plays a Key Role in the Transcriptional Regulation of the Vascular Endothelial Growth Factor Gene in Fibroblasts," <u>J. Biol. Chem.</u> , 273: 18, 165-18,172 (1998). | |
| | JJ | Mizushima et al., "pEF-BOS, a powerful mammalian expression vector," <u>Nuc. Acids Res.</u> , 18(17):5322 (1990). | |
| | JK | Nakagama et al., "Sequence and Structural Requirements for High-Affinity DNA Binding by the WT1 Gene Product," <u>Molecular and Cellular Biology</u> , 15(3):1489-1498 (1995). | |
| | JL | Nardelli et al., "Base sequence discrimination by zinc-finger DNA-binding domains," <u>Nature</u> , 349:175-178 (1991). | |
| | JM | Nardelli et al., "Zinc finger-DNA recognition: analysis of base specificity by site-directed mutagenesis," <u>Nuc. Acids Res.</u> , 20(16):4137-4144 (1992). | |
| CY | JN | Nekludova et al., "Distinctive DNA conformation with enlarged major groove is found in Zn-finger—DNA and other protein—DNA complexes," <u>PNAS</u> , 91:6948-6952 (1994). | |

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|--|----------------|
| CY | JO | Ogawa, S. et al., A Novel Type of Vascular Endothelial Growth Factor, VEGF-E (NZ-7 VEGF), Preferentially Utilizes KDR/FLK-1 Receptor and Carries a Potent Mitotic Activity without Heparin-binding Domain," <u>J. Biol. Chem.</u> , 273:31273-31282 (1998). | |
| | JP | Olofsson et al., "Vascular endothelial growth factor B, a novel growth factor for endothelial cells," <u>PNAS</u> , 93: 2576-2581 (1996). | |
| | JQ | Orkin et al., "Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy," <u>NIH Homepage</u> , 41 pages total (1995). | |
| | JR | Pabo et al., "Geometric Analysis and Comparison of Protein-DNA Interfaces: Why is there no simple code for recognition," <u>J. Mol. Biol.</u> , 301:597-635 (2000). | |
| | JS | Pabo et al., "Protein-DNA Recognition," <u>Ann. Rev. Biochem.</u> , 53:293-321 (1984). | |
| | JT | Pabo et al., "Systematic Analysis of Possible Hydrogen Bonds between Amino Acid Side Chains and B-form DNA," <u>J. Biomolecular Struct. Dynamics</u> , 1:1039-1049 (1983). | |
| | JU | Pabo, C. O., "Transcription Factors: Structural Families and Principles of DNA Recognition," <u>Ann. Rev. Biochem.</u> , 61:1053-1095 (1992). | |
| | JV | Pavletich et al., "Crystal Structure of a Five-Finger GLI-DNA Complex: New Perspectives on Zinc Fingers," <u>Science</u> , 261:1701-1707 (1993). | |
| | JW | Pavletich et al., "Zinc Finger-DNA Recognition: Crystal Structure of a Zif268-DNA Complex at 2.1 Å," <u>Science</u> , 252:809-817 (1991). | |
| | JX | Pengue et al., "Kruppel-associated box-mediated repression of RNA polymerase II promoters is influenced by the arrangement of basal promoter elements," <u>PNAS</u> , 93:1015-1020 (1996). | |
| | JY | Pengue et al., "Repression of transcriptional activity at a distance by the evolutionarily conserved KRAB domain present in a subfamily of zinc finger proteins," <u>Nuc. Acids Res.</u> , 22(15):2908-2914 (1994). | |
| CY | JZ | Pengue et al., "Transcriptional Silencing of Human Immunodeficiency Virus Type 1 Long Terminal Repeat-Driven Gene Expression by the Kruppel-Associated Box Repressor Domain Targeted to the Transactivating Response Element," <u>J. Virology</u> , 69(10):6577-6580 (1995). | |

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| Filing Dat | December 6, 2001 |
| First Named Inv ntor | Rebar, Edward, et al. |
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|---------------------|-----------------------|--|----------------|
| CY | KA | Pettersson et al., "Heterogeneity of the Angiogenic Response Induced in Different Normal Adult Tissues by Vascular Permeability Factor/Vascular Endothelial Growth Factor," <u>Laboratory Investigation</u> , 80:99-115 (2000). | |
| | KB | Pomerantz et al., "Analysis of homeodomain function by structure-based design of a transcription factor," <u>PNAS</u> , 92:9752-9756 (1995). | |
| | KC | Pomerantz et al., "Structure-Based Design of a Dimeric Zinc Finger Protein," <u>Biochemistry</u> , 37(4):965-970 (1998). | |
| | KD | Pomerantz, J.L. et al. "Structure-based design of transcription factors," <u>Science</u> , 267:93-96 (1995). | |
| | KE | Qian et al., "Two-dimensional NMR Studies of the Zinc Finger Motif: Solution Structures and Dynamics of Mutant ZFY Domains Containing Aromatic Substitutions in the Hydrophobic Core," <u>Biochemistry</u> , 31:7463-7476 (1992). | |
| | KF | Quigley et al., "Complete Androgen Insensitivity Due to Deletion of Exon C of the Androgen Receptor Gene Highlights the Functional Importance of the Second Zinc Finger of the Androgen Receptor <i>in Vivo</i> ," <u>Molecular Endocrinology</u> , 6(7):1103-1112 (1992). | |
| | KG | Rauscher et al., "Binding of the Wilms' Tumor Locus Zinc Finger Protein to the EGR-1 Consensus Sequence," <u>Science</u> , 250:1259-1262 (1990). | |
| | KH | Ray et al., "Repressor to activator switch by mutations in the first Zn finger of the glucocorticoid receptor: Is direct DNA binding necessary?," <u>PNAS</u> , 88:7086-7090 (1991). | |
| | KI | Rebar et al., "Phage Display Methods for Selecting Zinc Finger Proteins with Novel DNA-Binding Specificities," <u>Methods in Enzymology</u> , 267:129-149 (1996). | |
| | KJ | Rebar, E.J. and Pabo, C.O. "Zinc finger phage: Affinity selection of fingers with new DNA-binding Specificities." <u>Science</u> , 263:671-673 (1994). | |
| CY | KK | Reith et al., "Cloning of the major histocompatibility complex class II promoter binding protein affected in a hereditary defect in class II gene regulation," <u>PNAS</u> , 86:4200-4204 (1989). | |

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | KL | Rhodes et al., "Zinc Fingers: They play a key part in regulating the activity of genes in many species, from yeast to humans. Fewer than 10 years ago no one knew they existed," <u>Scientific American</u> , 268:56-65 (1993). | |
| | KM | Rice et al., "Inhibitors of HIV Nucleocapsid Protein Zinc Fingers as Candidates for the Treatment of AIDS," <u>Science</u> , 270:1194-1197 (1995). | |
| | KN | Rivera et al., "A humanized system for pharmacologic control of gene expression," <u>Nature Medicine</u> , 2(9):1028-1032 (1996). | |
| | KO | Rollins et al., "Role of TFIIIA Zinc Fingers In vivo: Analysis of Single-Finger Function in Developing <i>Xenopus</i> Embryos," <u>Molecular Cellular Biology</u> , 13(8):4776-4783 (1993). | |
| | KP | Rosengart et al., "Angiogenesis Gene Therapy- Phase I Assessment of Direct Intramyocardial Administration of an Adenovirus Vector expressing VEGF121 cDNA to Individuals with Clinically Significant Severe Coronary Artery Disease," <u>Circulation</u> , 100: 468-474 (1999). | |
| | KQ | Rosengart et al., "Six-Month Assessment of a Phase I Trial of Angiogenic Gene Therapy for the Treatment of Coronary Artery Disease Using Direct Intramyocardial Administration of an Adenovirus Vector Expressing the VEGF121 cDNA," <u>Ann. Surg.</u> , 230: 466-470 (1999). | |
| | KR | Ruben et al., "Isolation of a rel-Related Human cDNA that Potentially Encodes the 65-kD Subunit of NF-kB," <u>Science</u> , 251: 1490-1493 (1991). | |
| | KS | Ryuto et al., "Induction of Vascular Endothelial Growth Factor by Tumor Necrosis Factor α in Human Glioma Cells," <u>J. Biol. Chem.</u> , 271:28, 220- 28, 228 (1996). | |
| | KT | Sadowski et al., "GAL4-VP16 is an unusually potent transcriptional activator," <u>Nature</u> , 335: 563-568 (1998). | |
| | KU | Saleh et al., "A Novel Zinc Finger Gene on Human Chromosome 1qter That Is Alternatively Spliced in Human Tissues and Cell Lines," <u>Am. J. Hum. Genet.</u> , 52:192-203 (1993). | |
| CY | KV | Salimath et al., "Expression of the vascular endothelial growth factor gene is inhibited by p73," <u>Oncogene</u> , 19: 3470-3746 (2000). | |

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| Examiner Signature | <i>Christopher</i> | Date Considered | 7.15.03 |
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Sheet **20** of **20****Complete if Known**

| | |
|------------------------|-----------------------|
| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|---------------------|-----------------------|---|----------------|
| CY | KW | Segal et al. "Design of Novel Sequence-Specific DNA-binding proteins," <u>Current Opinion in Chemical Biology</u> , 4:34-39 (2000). | |
| | KX | Segal et al. "Toward controlling gene expression at will: Selection and design of zinc finger domains recognizing each of the 5'-GNN-3' DNA target sequences," <u>PNAS</u> , 96:2758-2763 (1999). | |
| | KY | Shi et al., "A direct comparison of the properties of natural and designed finger proteins," <u>Chem. & Biol.</u> , 2(2):83-89 (1995). | |
| | KZ | Shi et al., "DNA Unwinding Induced by Zinc Finger Protein Binding," <u>Biochemistry</u> , 35:3845-3848 (1996). | |
| | LA | Shi et al., "Specific DNA-RNA Hybrid Binding by Zinc Finger Proteins," <u>Science</u> , 268:282-284 (1995). | |
| | LB | Singh et al., "Molecular Cloning of an Enhancer Binding Protein: Isolation by Screening of an Expression Library with a Recognition Site DNA," <u>Cell</u> , 52:415-423 (1988). | |
| | LC | Skerka et al., "Coordinate Expression and Distinct DNA-Binding Characteristics of the Four EGR-Zinc Finger Proteins in Jurkat T Lymphocytes," <u>Immunobiology</u> , 198:179-191 (1997). | |
| | LD | Soker et al., "Neuropilin-1 Is Expressed by Endothelial and Tumor Cells as an Isoform-Specific Receptor for Vascular Endothelial Growth Factor," <u>Cell</u> , 92: 735-745 (1998). | |
| | LE | South et al., "The Nucleocapsid Protein Isolated from HIV-1 Particles Binds Zinc and Forms Retroviral-Type Zinc Fingers," <u>Biochemistry</u> , 29:7786-7789 (1990). | |
| | LF | Suzuki et al. "DNA recognition code of transcription factors in the helix-turn-helix, probe helix, hormone receptor, and zinc finger families," <u>PNAS</u> , 91:12357-12361 (1994). | |
| | LG | Suzuki et al., "Stereochemical basis of DNA recognition by Zn fingers," <u>Nuc. Acids Res.</u> , 22(16):3397-3405 (1994). | |
| | LH | Swirnoff et al., "DNA-Binding Specificity of NGFI-A and Related Zinc Finger Transcription Factors," <u>Mol. Cell. Biol.</u> , 15(4):2275-2287 (1995). | |
| CY | LI | Taylor et al, "Designing Zinc-Finger ADR1 Mutants with Altered Specificity of DNA Binding to T in UAS1 Sequences," <u>Biochemistry</u> , 34:3222-3230 (1995). | |

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|------------------------|-----------------------|
| Applicati n Numb r | 10/006,069 |
| Filing Date | D cember 6, 2001 |
| First Named Invent r | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
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|---------------------|-----------------------|---|----------------|
| CY | LJ | Thiesen et al., "Amino Acid Substitutions in the SP1 Zinc Finger Domain Alter the DNA Binding Affinity to Cognate SP1 Target Site," <u>Biochem. Biophys. Res. Communications</u> , 175(1):333-338 (1991). | |
| | LK | Thiesen et al., "Determination of DNA binding Specificities of mutated zinc finger domains," <u>FEBS Letters</u> , 283(1):23-26 (1991). | |
| | LL | Thukral et al., "Alanine scanning site-directed mutagenesis of the zinc fingers of transcription factor ADR1: Residues that contact DNA and that transactivate," <u>PNAS</u> , 88:9188-9192 (1991). | |
| | LM | Thukral et al., "Alanine scanning site-directed mutagenesis of the zinc fingers of transcription factor ADR1: residues that contact DNA and that transactivate," <u>PNAS</u> , 90:7908 (1993). | |
| | LN | Thukral et al., "Localization of a Minimal Binding Domain and Activation Regions in Yeast Regulatory Protein ADR1," <u>Molecular Cellular Biology</u> , 9(6):2360-2369 (1989). | |
| | LO | Thukral et al., "Mutations in the Zinc Fingers of ADR1 That Change the Specificity of DNA Binding and Transactivation," <u>Mol. Cell Biol.</u> , 12(6):2784-2792 (1992). | |
| | LP | Thukral et al., "Two Monomers of Yeast Transcription Factor ADR1 Bind a Palindromic Sequence Symmetrically to Activate <i>ADH2</i> Expression," <u>Molecular Cellular Biol.</u> , 11(3):1566-1577 (1991). | |
| | LQ | Vortkamp et al., "Identification of Optimized Target Sequences for the GLI3 Zinc Finger Protein," <u>DNA Cell Biol.</u> , 14(7):629-634 (1995). | |
| | LR | Wang et al., "Dimerization of Zinc Fingers Mediated by Peptides Evolved <i>In Vitro</i> from Random Sequences," <u>PNAS</u> , 96:9568-9573 (1999). | |
| | LS | Webster et al., "Conversion of the E1A Cys4 zinc finger to a nonfunctional His2, Cys2 zinc finger by a single point mutation," <u>PNAS</u> , 88:9989-9993 (1991). | |
| | LT | Whyatt et al., "The two zinc finger-like domains of GATA-1 have different DNA binding specificities," <u>EMBO J.</u> , 12(13):4993-5005 (1993). | |
| CY | LU | Wilson et al., "In Vivo Mutational analysis of the NGFI-A Zinc Fingers*," <u>J. Biol. Chem.</u> , 267(6):3718-3724 (92). | |

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar, Edward, et al. |
| Group Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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|---------------------|-----------------------|---|----------------|
| CY | LV | Witzgall et al., "The Kruppel-associated box-A (KRAB-A) domain of zinc finger proteins mediates transcriptional repression," <u>PNAS</u> , 91:4514-4518 (1994). | |
| | LW | Wolfe et al., "Analysis of Zinc Fingers Optimized Via Phage Display: Evaluating the Utility of a Recognition Code," <u>J. Mol. Biol.</u> , 285:1917-1934 (1999). | |
| | LX | Wolfe et al., "Combining structure-base design with phage display to create new Cys2His2 zinc finger dimers," <u>Structure</u> , vol 8(7):739-750 (2000). | |
| | LY | Wolfe et al., "DNA Recognition by Cys2His2 Zinc Finger Proteins," <u>Annu. Rev. Biophys. Struct.</u> , 3:183-212 (1999). | |
| | LZ | Wright et al., "Expression of a Zinc Finger Gene in HTLV-I- and HTLV-II-transformed Cells," <u>Science</u> , 248:588-591 (1990). | |
| | MA | Wu, H. et al. "Building zinc fingers by selection: Toward a therapeutic application." <u>PNAS</u> , 92:344-348 (1995). | |
| | MB | Yang et al., "Surface plasmon resonance based kinetic studies of zinc finger-DNA interactions," <u>J. Immunol. Methods</u> , 183:175-182 (1995). | |
| | MC | Yu et al., "A hairpin ribozyme inhibits expression of diverse strains of human immunodeficiency virus type 1," <u>PNAS</u> , 90:6340-6344 (1993). | |
| CY | MD | Zhang et al., "Synthetic Zinc Finger Transcription Factor Action at an Endogenous Chromosomal Site- Activation of the Human Erythropoietin gene," <u>J. Biol. Chem.</u> , 275:33850-33860 (2000). | |
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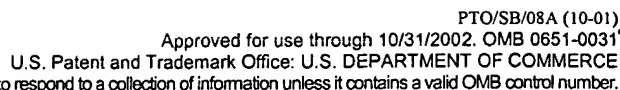
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| Examiner Signature | <u>Christopher HZ</u> | Date Considered | <u>7.15.03</u> |
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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar et. al. |
| Art Unit | 1646 |
| Examiner Name | Unassigned |
| Attorney Docket Number | 019496-005830US |

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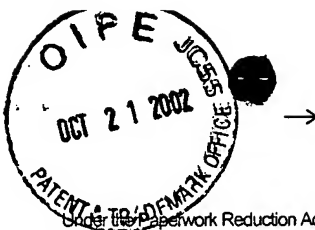
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Sheet 2 of 2

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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar et. al. |
| Art Unit | 4646-1642 |
| Examiner Name | Unassigned C. Yaen |
| Attorney Docket Number | 019496-005830US |

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|------------------------|--------------------------|---|----------------|
| CY | AA | BONDE et al., "Ontogeny of the v-erb A Oncoprotein from the Thyroid Hormone Receptor: an Alteration in the DNA Binding Domain Plays a Role Crucial for v-erb A Function," <u>J. Virology</u> , 65(4):2037-2046 (1991). | |
| CY | AB | DESJARDINS et al., "Repeated CT Elements Bound by Zinc Finger Proteins Control the Absolute and Relative Activities of the Two Principal Human c-myc Promoters," <u>Mol. and Cellular Biol.</u> , 13(9):5710-5724 (1993). | |
| CY | AC | HALL et al., "Functional Interaction between the Two Zinc finger Domains of the v-erb A Oncoprotein," <u>Clee Growth & Differentiation</u> , 3:207-216 (1992). | |
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| Application Number | 10/006,069 |
| Filing Date | December 6, 2001 |
| First Named Inventor | Rebar et. al. |
| Art Unit | 1646 1642 |
| Examiner Name | Unassigned C. Yuen |
| Attorney Docket Number | 019496-005830US |

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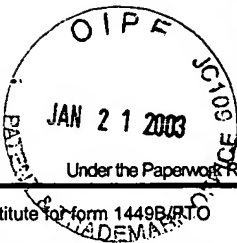
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|---------------------|-----------------------|---|----------------|
| CY | AE | BATTEGAY, E.J., "Angiogenesis: mechanistic insights, neovascular diseases, and therapeutic prospects," <u>J. Mol. Med.</u> , 73:333-346 (1995). | |
| CY | AF | CROMBLEHOLME, T.M., "Adenoviral-mediated gene transfer in wound healing," <u>Wound Repair and Regeneration</u> , November-December 2000, pages 460-472. | |
| CY | AG | LIU et al., "Regulation of an Endogenous Locus Using a Panel of Designed Zinc Finger Proteins Targeted to Accessible Chromatin Regions," <u>J. Biol. Chem.</u> , 276(14):11323-11334 (2001). | |
| CY | AH | LIU et al., "Regulation of the endogenous VEGF-A chromosomal locus using designed zinc finger proteins," <u>Biochemistry and Cell Biology</u> , 79(3):377 (2001). | |
| CY | AI | POLLOCK et al., "Regulation of the endogenous VEGF gene by small molecule-dimerizers," <u>BLOOD</u> , 98(11):746a, abstract 3108 (2001). | |
| CY | AJ | RICHARD et al., "Angiogenesis: How a Tumor Adapts to Hypoxia," <u>Biochem. Biophys. Res. Communications</u> , 266:718-722 (1999). | |
| CY | AK | YAO et al., "Gene therapy in wound repair and regeneration," <u>Wound Repair and Regeneration</u> , 8(6):443-451 (2000). | |
| CY | AL | ZHANG et al., "Wild-Type p53 Suppresses Angiogenesis in Human Leiomyosarcoma and Synovial Sarcoma by Transcriptional Suppression of Vascular Endothelial Growth Factor Expression," <u>Cancer Research</u> , 60:3655-3661 (2001). | |
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Signature

Christopher H. Yuen

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